

# Netherlands Central Bureau Statistics

## From data collection to (JODI) reporting

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JODI Conference Cairo 2019



# The NL & Caribbean

- Quarter of the land below sea level
- 17.385.980 people
- Densely populated: 500 persons / km<sup>2</sup>
- Kingdom: King Willem Alexander
- 300 km long, 200 km wide

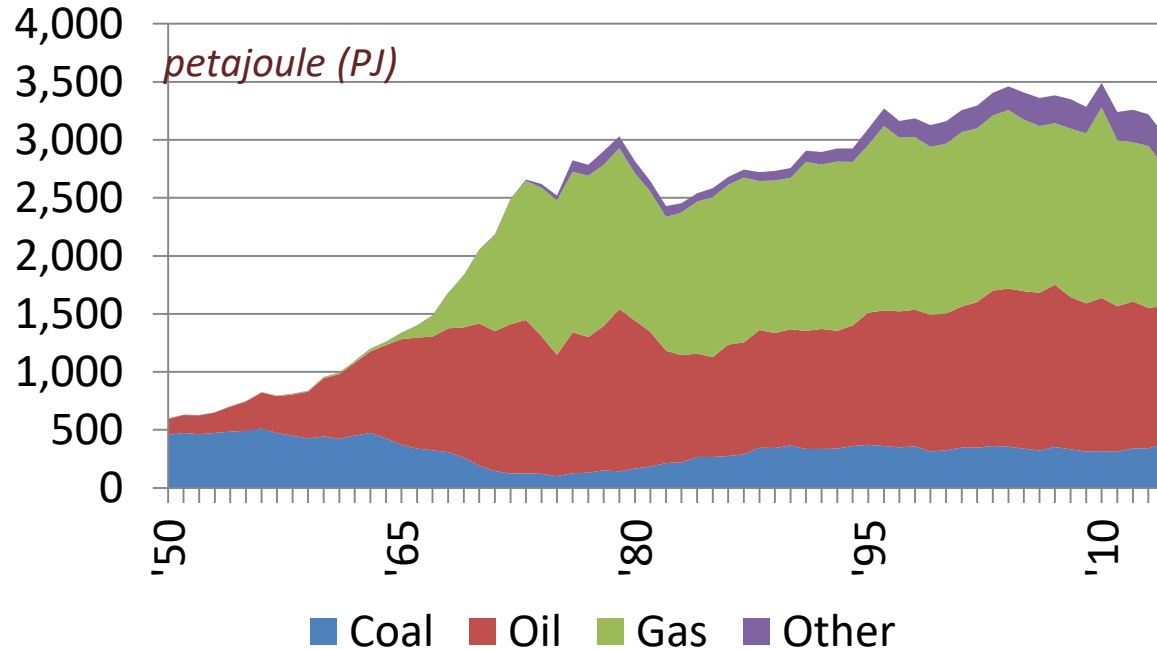


# CBS Statistics Office

- **Minister of Economic Affairs**: system responsibility: legislation and budget (we are strictly independent from but funded by central government)
  - **CCS**: responsible for national statistical programme; supervisory board of CBS
  - **EU**: EU legislation and EU programme; important influence on the national programme
  - **NL**: custom made tables for decision makers
- => Centralized system, CBS only statistical authority



# Primary Energy Supply Netherlands



# Overview of presentation

## Relation with world outside the statistical office

- Data collecting from companies, registers
  - *Strategy for response, guidance for definitions*
- Internally: processing, analysing, correcting
  - *1 database, provides transparency, consistency*
- Getting the users informed about energy matters
  - *Statline tables, strategy, getting the users and public informed*



# Collecting data, guidance to provides

## Energy data via questionnaires

- Questionnaire comes with short manual about product and flow definitions
- Helpdesk, email, telephone, 5 yearly gathering oil companies, networking, build a relation
- Best is to have direct contact with technical people

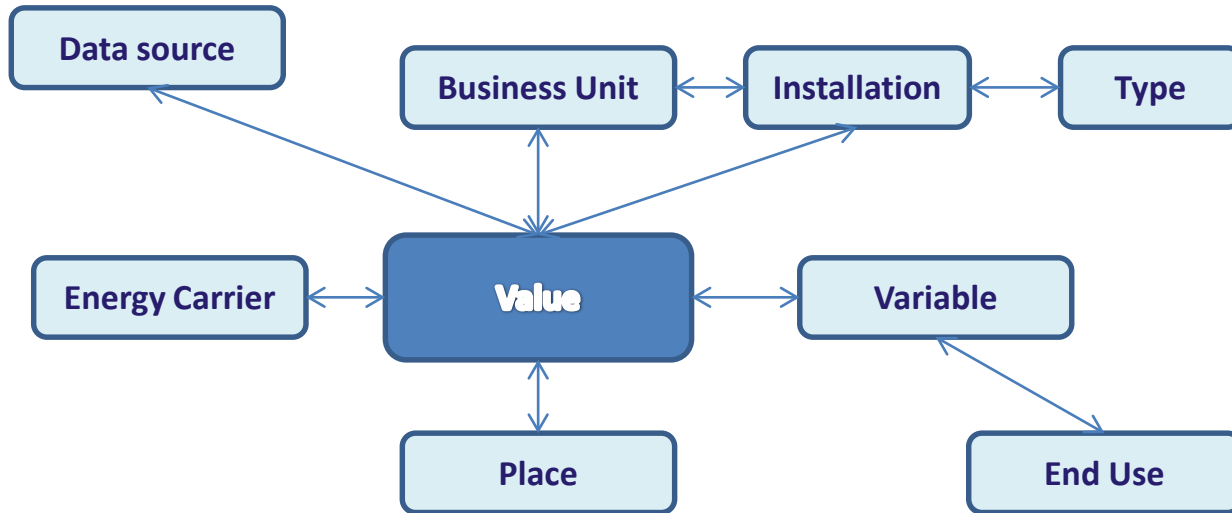
# Getting data, strategy

For example Oil questionnaire

- Every month reporting companies receive reminder with login codes for uploading xls Oil questionnaire
- Non reporting: 10 days before deadline receive a recall
- 3 days before deadline, last recall
- 1 day before deadline telephone call
- Depending on reason, get a fine

# Processing data (1 of 3)

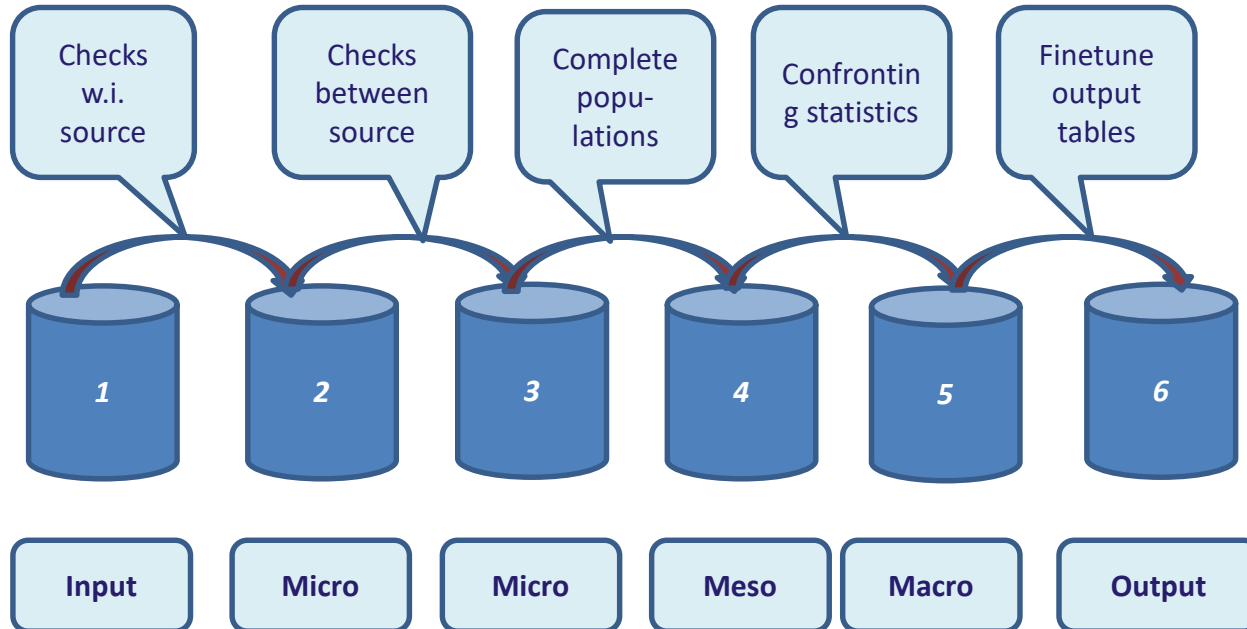
Data model of a single record (simplified)





# Processing data (2 of 3)

## Database design



# Processing data (3 of 3)

## Overview

- Centralized data collection CBS
- Application is webbased, accessible from anywhere
- Integrated system, for all energy products, from survey to publication
- Consistency



# Publishing data (1 of 4) www.CBS.nl

Highlight important, relevant news

Twitter, Youtube

Quiz for students

Every theme has own page

The screenshot displays the CBS Statistics Netherlands website. The browser address bar shows the URL <https://www.cbs.nl/en-gb>. The website features a navigation menu with categories: Figures, Labour and income, Economy, Society, Regional, and Corporate. A search bar is located in the top right corner.

The main content area includes a large featured article titled "One-third of electricity renewable on Caribbean islands" with a background image of wind turbines. To the right, there is a "Featured" sidebar with links to "Trends in the Netherlands 2019", "Future Advanced Data Collection Vision Paper", and "The Netherlands on the European Scale 2019". Below this is a "CBS video" section with a video player titled "CBS Facts that..." and "Our story".

The main content area is filled with several smaller news items:

- Brexit: figures at a glance** (02/10/2019 10:28)
- Number of employed persons further up** (17/10/2019 15:00) with a "+8 000" icon.
- Twice as many Chinese companies in the Netherlands** (14/10/2019 15:00) with a video play button icon.
- Retail turnover 3 percent up in August**
- Economic picture slightly less favourable**
- Number of bankruptcies hardly changed**

On the right side, there is an "Expected" sidebar with a calendar icon, listing:

- House prices** (21/10/2019 15:00)
- Consumer spending** (22/10/2019 15:00)
- Consumer confidence** (22/10/2019 15:00)
- Investments** (21/10/2019 15:00)

The Windows taskbar at the bottom shows several open applications, including "FW: Session 5 Protoc...", "translate - Google Se...", "CBS - Statistics Neth...", and "The Netherlands San...". The system clock shows 13:38.

# Publishing data (2 of 3), Theme Energy

Energy News

Statline downloadable tables

In depth articles and publications

The screenshot shows a web browser window displaying the 'Manufacturing and energy' page from the CBS website. The browser's address bar shows the URL 'https://www.cbs.nl/en-gb/economy/manufacturing-and-energy'. The page features a navigation menu with categories like 'Figures', 'Labour and income', 'Economy', 'Society', 'Regional', and 'Corporate'. The main content area is titled 'Manufacturing and energy' and includes a 'Links' button. Below this, there is a 'News' section with six articles, each with a thumbnail image, a title, and a date. The articles are: 'One-third of electricity renewable on Caribbean islands' (yesterday 13:30), 'Manufacturing output almost 1 percent down in August' (10/10/2023 13:00), 'Manufacturing output prices down in August' (30/09/2023 13:00), 'Dutch manufacturers less positive' (27/09/2023 13:00), 'Manufacturing output slightly down in July' (09/09/2023 13:00), and 'Manufacturing output prices hardly changed' (30/08/2023 13:00). Below the news section is a 'Figures' section with two items: 'Production, turnover and orders' (10/10/2023 06:30) and 'Energy: prices by energy commodity' (10/09/2023 06:30). The Windows taskbar at the bottom shows the time as 13:49 and includes icons for various applications.



# Publishing data (3 of 4), Energy tables

Selections

Balance item, Energy products

Time, year month

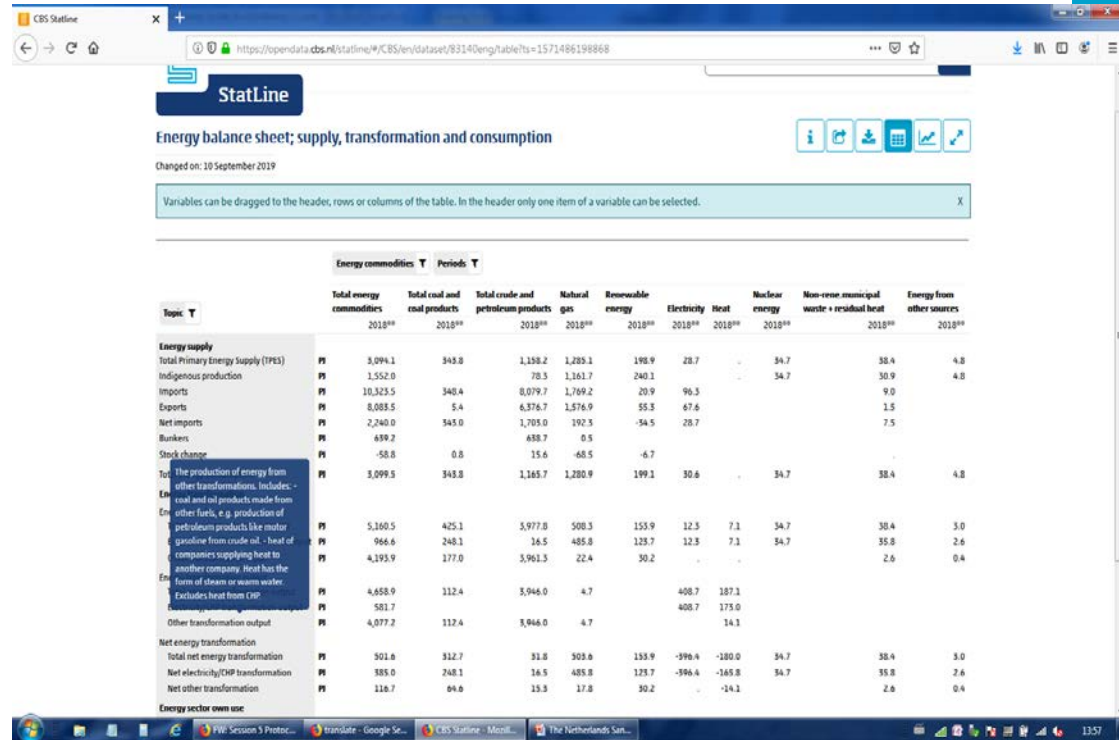
Extra info:

Mouse over, quick info

How survey was conducted

How data must be interpreted

Blending, Groningen gas,  
stat differences



StatLine  
Energy balance sheet; supply, transformation and consumption  
Changed on: 10 September 2019

Variables can be dragged to the header, rows or columns of the table. In the header only one item of a variable can be selected.

Topic	Energy commodities		Total coal and coal products		Total crude and petroleum products		Natural gas	Renewable energy	Electricity	Heat	Nuclear energy	Non-renewable municipal waste + residual heat	Energy from other sources
	2018**	2018**	2018**	2018**	2018**	2018**	2018**	2018**	2018**	2018**	2018**	2018**	2018**
<b>Energy supply</b>													
Total Primary Energy Supply (TPES)	PI	3,094.1	343.8	1,158.2	1,285.1	198.9	28.7	-	34.7		38.4	4.8	
Indigenous production	PI	1,552.0		70.5	1,161.7	240.1			34.7		30.9	4.8	
Imports	PI	10,325.5	340.4	0,079.7	1,769.2	20.9	96.3				9.0		
Exports	PI	8,085.5	5.4	6,376.7	1,576.9	55.3	67.6				1.5		
Net imports	PI	2,240.0	345.0	1,703.0	192.3	-54.5	28.7				7.5		
Bunkers	PI	639.2		658.7	0.5								
Stock change	PI	-58.8	0.8	15.6	-68.5	-6.7							
Total	PI	3,099.5	345.8	1,165.7	1,280.9	199.1	30.6		34.7		38.4	4.8	
<b>Energy transformation</b>													
Total production of energy from other transformations. Includes: - coal and oil products made from other fuels, e.g. production of petroleum products like motor gasoline from crude oil. - heat of companies supplying heat to another company. Heat has the form of steam or warm water. Excludes heat from CHP.	PI	5,160.5	425.1	5,977.8	508.3	153.9	12.3	7.1	34.7		38.4	3.0	
Production of electricity from coal	PI	966.6	248.1	16.5	485.8	123.7	12.3	7.1	34.7		35.8	2.6	
Production of electricity from gas	PI	4,193.9	177.0	5,961.3	22.4	30.2					2.6	0.4	
Production of electricity from other sources	PI	4,658.9	112.4	3,946.0	4.7	408.7	187.1						
Production of electricity from CHP	PI	501.7				408.7	175.0						
Other transformation output	PI	4,077.2	112.4	3,946.0	4.7		14.3						
<b>Net energy transformation</b>													
Total net energy transformation	PI	501.6	312.7	31.8	503.6	153.9	-996.4	-180.0	34.7		38.4	3.0	
Net electricity/CHP transformation	PI	385.0	248.1	16.5	485.8	123.7	-996.4	-165.8	34.7		35.8	2.6	
Net other transformation	PI	116.7	64.6	15.3	17.8	30.2		-14.1			2.6	0.4	
<b>Energy sector own use</b>													

# Publishing data (4 of 4), Energy Theme page

Tables oil, gas, renewables

Research documents  
related to energy

Every research is free accessible

Manufacturing and energy

Centraal Bureau voor de Statistiek (NL) | https://www.cbs.nl/en-gb/economy/manufacturing-and-energy

Figures Labour and income Economy Society Regional Corporate

in-deepth articles

Final energy consumption in the industry sector  
17/10/2019 02:00

International trade in gas in the Netherlands  
01/07/2019 09:00

Import competition and firm innovation, 2000-2010  
20/02/2019 09:15

Pressure gradients and earthquake rates in Groningen  
11/07/2019 08:00

Weibull fitting of earthquakes in Groningen  
04/06/2019 08:00

Reservoir pressure and earthquake rates in Groningen  
24/01/2019 12:00

more in-depth articles

Publications

Trends in the Netherlands 2019  
07/08/2019 10:42

The Netherlands on the European scale 2019  
29/05/2019 15:00

Internationalisation Monitor 2019, third quarter  
27/09/2019 00:00

CBS Telewerken - Int... intro otto - brummel... Manufacturing and e... The Netherlands San... Introduction, Otto p...

23:02



# Thank you

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